# **AKAI VS-F440/F480**

#### **General Information**

#### 1992

Video: 4 Heads Rotary **Audio: Fixed Head 1CH Covers Models** Akai VS-F441/F450 Akai VS-F455/F490 Akai VS-F497

#### **Matrix**

Item

See Model

Mechanical Parts View	Akai VS-422/425
	89/90 Book.
Mechanical Adjustments	Akai VS-F10/F11
	91/92 Book.
Replacement of Idler	Akai VS-F410
Back Tension Adjustment	Akai VS-F260
Power Supply - VS-F490	Akai VS-F260
Power Supply - VS-F440	Akai VS-F260
Power Supply - VS-F441/F450/	
F455/F490/F497	Akai VS-F260
Main Diagram 1/3	Akai VS-F260
Main Diagram (B)	Akai VS-F260
Operation (A)	Akai VS-F260
VPST/PDC	Akai VS-F260
VIF Unit	Akai VS-F260
R/C Others	Akai VS-F260

#### **Head Motors and Miscellaneous**

Part No. All models:

BV-V1123A410B

BV-V1123A420B

BM-401296J1

BLK X450DGN Upper Drum BLK X450FGN Motor E20EL89 (Drum Motor)

Description

Lower Drum

For Models: VS-F440EA/EDG/ED1/EK/EM/EO/ EOG-V/EOH

VS-F441EA/F450-EOH VS-F455EOH

HR-405340J

Head Combo HVMZA1121A

HE-390013J Head E HVFME0020A

For Models:

VS-F480EK-V/EOG-V VS-F490EM/EO/EOH/ES VS-F497EOH

HR-405340J HE-390013J Head Combo HVM7A1121A Head HVFME0020A

For Models: VS-F480EK-V/EOG-V VS-F490EM/EO/EOH/ES VS-F497EOH

BM-400682J1

BM-387503J

Motor DFX-67B3VWB1 (Capstan Motor) Motor Part (Loading Motor)

**Recommended Safety Parts** 

Part No. Item Description

Models: EA/EDI

D1 - D12 ED-511907 D Silicon 1N4002 100/1.0A D16 ED-404029J D Zener H UTZJ10B T26 D18 ED-511907 D Silicon 1N4002 100/1.0A FR1, FR3 ER-408375J R Fuse V TO5RF25SCPVTP1/4WR12K R Fuse V TO5 RF25SCVTP1/4WR12K FR2. FR4 ER-400728J FR5 ER-400605J R Fuse V TO5 ERD2FCV1/4W15ROG

TR1 ET-381175J TR 2SD1856 TR2, TR7 ET-366365 TR 2SB1185 E.F TR3, TR4, TR5 ET-405622J TR 2SD2061 E,F TR6 ET-391025J TR 2SD2012

Model: EM

C CE V DE7 B102K 400AC C101 EC-389414J D3. D4 ED-511907 D Silicon 1N4002 100/1.0A D6, D11 ED-386226J D Schottky RB100AT-32T26 40/1 D8 ED-386226J D Schottky RB100AT-32T26 30/1 D16 ED-307572 D Silicon H 1SS131

D17, D18, D71 D72, D73, D74

D101 ED-511907 D Silicon 1N4002 100/1.0A R Fuse V TO5 RF25SCVTP1/4WR12K FR1 ER-400728J FR2 ER-408375J R Fuse V TO5RF25SCPVTP1/4WR12K FR3 ER-400605J R Fuse V TO5ERD2FCV 1/4W15ROG FR4 ER-400689J R Fuse V TO5RF25SCVTP1/4WR68K FR5 R Fuse V TO5RF25SCVTP1/4WR68K ER-405441J FR101 ER-400689J R Fuse V TO5RF25SCVTP1/4WR68K FR102 ER-401039J R Fuse V TO5ERD2FCV 1/4W 4R7J

EQ-400153J RL101 Relay POW AG2013 1TR 12V TR1, TR5 TR9, TR13 ET-366365 TR 2SB1185 E,F ET-405622J TR 2SD2061 E.F. TR2, TR7

TR4 ET-366168 TR 2SD1292 Q,R TR12 ET-405622J TR 2SD2061 E,F TR107 ET-404195J TR 2SC4486 S,T T05

IC1 EI-381575J IC BA6121 19A BT-410487J Trans POW V1130 EA (EM) 19B BT-410489J Trans POW V1130 ES (ED1) Trans POW V1130 EM (EM) 19C BT-410488J

Models: F440EK/F490ES

D1 - D12 ED-511907 D Silicon 1N4002 100/1.0A D16 ED-404029J D Zener H UTZJ10B T26 FR1, FR3 ER-408375J R Fuse V TO5RF25SCP1/4WR12K FR2, FR4 ER-400728J R Fuse V TO5RF25SCVTP1/4WR12K FR5 ER-400605J R Fuse V TO5ERD2FCV 1/4W15ROG TR1 ET-381175J TR 2SD1856

TR2, TR7 ET-366365 TR2SB1185 E.F. TR3 - TR6 ET-405622J TR2SD2061 E.F

Model: F480EK

ED-511907 D3, D4 D Silicon 1N4002 100/1.0A D6, D8, D11 ED-386226J D Schottky RB100AT-32T26 40/1 D17, D18, D71

D72, D73, D74 ED-511907 D Silicon 1N4002 100/1.0A ER-400728J R Fuse V TO5 RF25SCVTP1/4WR12K

FR2 ER-408375J R Fuse V TO5 RF25SCPVTP1/4WR12K FR3 ER-400605J R Fuse V TO5 ERD2FCV 1/4W15ROG FR4 ER-400689J R Fuse V TO5 RF25SCVTP1/4WR68K FR5 R Fuse V TO5 RF25SCVTP1/4WR27K ER-405441J TR1, TR5

TR9, TR13 ET-366365 TR 2SB1185 E.F TR12 ET-405622J TR 2SD2061 E,F

Model: F480EK

EI-381575J IC BA6121 TR2, TR7 ET-405622J TR 2SD2061 E,F TR4 ET-404195J TR 2SC4486 S.T T05 BT-403872J Trans Pow V1130 EK (440EK) BT-403883J Trans Pow V1130 EOG-V (480EK) BT-410489J Trans Pow V1130 ES (490ES)

**Mechanical Parts List** 

Description Part No. All Models:

Head Drum Block Base Drum MA-38747J3 BID26X08STL CMT ZS-563444 BID30X06STL CMT ZS-379405 BID30X08STL CMT ZS-321298

DT BID30X06STL CMT C080

ZS-389853J Earth Brush Part AG VT-401282J

Holder FPC SZ-387388J Lower Drum BLK X450EGN BV-V1123A410B MOTOR E20EL89

BM-401296J1

PAN26X12STL CMT ZS-467796

PAN30X06STL CMT ZS-379350 ST BID30X12STL CMT ZS-336714

Uppe: Drum BLK X450EGN BV-V1123A420B

For Models:

(Drum Motor)

VS-F440EA/EDE/ED1/EK/EM/EO/EOG-V/EOH VS-F441EA VS-F450EOH VS-F455EOH

6SET20X030SCM PKR DP ZS-374458 6SET30X080SCM PKR CP ZG-373900

Arm Damper ML-391745J3 ML-387350J1 Arm Lid Opener BL-V1102A140A Arm Loading BLK 425EA Arm Loading Brake ML-387423J Arm Review Part ML-387277J3 Arm Shutter ML-387349J2

BID20X04STL CMT ZS-464703 BID30X08STL CMT ZS-321298 Cassette Load BLK 425EA BV-V1102A150A Disk (2) Part MT-390954J1

Gear Eject MZ-387335J Guide Front (2) SE-395554J Guide Roller D8 PART VT-387394J1

Head Combo HVMZA1121A HR-405340J Head E HVFME0020A HE-390013J Holder FE Head Part B MZ-40276060.12 Holder Lever Tension (2) SZ-407187J2 Idler Part MI-387294J

Leader S BLK 425EA BV-V1102A070A Leader T BLK 425EA BV-V1102A080A Lever Damper (S) ML-387345J Lever Damper (T) ML-387346J Lever Lock Release ML-387344J

Main Brake (S) Part ML-387316J Main Brake (T) Part ML-387318J Mecha Deck BLK F260EA BB-V1130A020H

PAN20X02STL BZN PS1 ZS-404844J Pinch Roller (2) Part MP-404852J Plate Upper (2) MZ-406134J PW31X110X050PSL ZW-389814J

Retaining Ring Grip 380STL ACP Review Brake Part Roller Impedance

ZW-332843 ML-387321J MR-387286J1

Part No. Slider Front Loading ML-387428J ML-387431.11 SLIT W17X032X025PSL ZW-374445 ZG-387467J ZG-392294J ZG-387348J1 ZG-387320J SP Pull Review Brake ZG-387323J

ZG-387272J ZG-387438J1 SP Torsion Arm Damper ZG-395567J SP Torsion Damper (S) ZG-387421J SP Torsion Damper (T) ZG-8290J1 ZG-392831J ZG-387417J ZG-387418J

ZG-387420J1

ZG-387282J

For Models:

Description

Slider Pinch Part

SP Loading Brake

SP Pull Main Brake

SP Torsion Joint (2)

SP Torsion Load (S)

SP Torsion Load (T)

SP Torsion Release

SP Torsion Review

SP Plate Earth

SP Plate Holder

SP Pull Tension

SP Push A/C

VS-F490EM/EO/EOH/ES VS-F497EOH VS-F480EK-V/EOG-V

6SET20X030SCM PKR FP ZS-374458 6SET30X080SCM PKR CP ZG-373900

Arm Damper ML-391745J3 Arm Lid Opener ML-387350J1 Arm Loading BLK 425EA BL-V1102A140A Arm Pinch Roller BLK F410EK BL-V1130A160A Arm Review Part ML-387277J3 Arm Shutter ML-387349J2

BID30X08STL CMT ZS-321298 Cassette Load BLK 425EA BV-V1102A150A **Cushion Cover** SZ-391866J1 DISK (3) Part MT-404547J DT BID30X06STL **CMT C080** ZS-389853J

Gear Eject MZ-387335J Gear MID Part MZ-404995.1 Guide Front (2) SE-395554J Guide Roller D8 Part VT-387394J1

Head Combo HVMZA1121A HR-405340J Head E HVFME0020A HE-390013J Holder FE Head Part B MZ-402760J2 Idler (2) Part MI-404552J

Leader S BLK 425EA BV-V1102A070A Leader T BLK 425EA BV-V1102A080A Lever Damper (S) ML-387345J Lever Damper (T) ML-387346J Lever Lock Release ML-387344J

Main Brake (S) Part ML-387316J Main Brake (T) Part ML-387318J Mecha Deck BLK F410EK B-V1130A020C Nut Review ZW-401776J

PAN20X02STL BZN PS1 7S-404844.1 Pinch Roller (2) Part MP-404852J Plate Upper MZ-387351J2 PW31X110X050PSL ZW-389814J

Retaining Ring Grip 380STL ACP ZW-332843 Review Brake (3) Part ML-407119J Roller Impedance MR-387286J1

Slider Front Loading ML-387428J Slider Pinch Part ML-387431J1 SLIT W17X032X025PSL ZW-374445 SP Plate Earth ZG-392294J SP Plate Holder ZG-387348J1

Description Part No. SP Pull Main Brake ZG-387320J SP Pull Review Brake ZG-387323J SP Pull Tension (2) ZG-395470J SP Push A/C ZG-387438J1 ZG-395567J SP Torsion Arm Damper SP Torsion Damper (S) ZG-387421J SP Torsion Damper (T) ZG-388290J1 SP Torsion Joint (2) ZG-392831J SP Torsion Load (S) ZG-387417J SP Torsion Load (T) ZG-387418J

BL-V1123A050A Tension Arm Blk F600EA Holder Lever Tension SZ-3872631J4 Tension Band Part ML-390768J4 MZ-395471J3 Tension Brake Part

ZG-387420J1

ZG-387282J

ZS-358936

ZS-336714

For Models:

VS-F480EK-V/EOG-V VS-F490EM/EO/EOH/ES VS-F497EOH

SP Torsion Release

ST BID30X06STL CMT

ST BID30X12STL CMT

SP Torsion Review

Arm Coupling ML-387311J2 MB-407117J Belt Capstan (3) PC (#) Sensor (2)KFX EA-404543J BID30X03STL CMT ZS-425981

Capstan Brake Part LK-387458J2 Cord FFC P1.25 L=12013P EW-389313J (WP1)

D LED GL451 Infrared (D1) ED-390011J Detector SG-105LF

ET-403420J (PH1)(PH2) Disk Clutch (2) Part MZ-404577J

Gear Cam Slider (3) MZ-404538J Gear Front Loading MZ-387333J Gear Toggle(S) BLK 425EA MZ-V1102A090A Gear Toggle(T) BLK 425EA MZ-V1102A100A Gear Worm (2) MZ-401686J1 Gear Worm Wheel MZ-387332J

Holder D-LED MZ-387430J Holder Photo Sensor (2) MZ-404542J Holder S Sensor MZ-387445J Holder Thrust Worm MR-387406J

ML-387402J1 Lever Trigger Motor DFX-67B3VWB1 BM-400682J1 (Capstan Motor)

PT BID26X06STL CMT ZS-365149 PT BID26X10STL CMT ZS-389950J MR-391968J Pulley Trigger (2) PW26X060X050PSL ZW-389923J

Motor Part (Loading Motor) BM-387503J

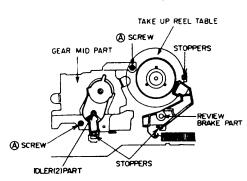
Slider Brake (3) Part ML-404567J1 ML-404944J Slider Trigger (2) SLIT W21X040X050PSL ZW-387492J EJ-381837J

Socket 174074-5 SP (P1) Socket Housing 5062-30-10-13 (PS1) EJ-387497J SP Pull Capstan Brake ZG-387502J SP Pull Slider ZG-387468J SP Pull Toggle ZG-387413J1 SP Torsion Coupling ZG-387403J SP Trigger ZG-387443J ST BID30X06STL CMT ZS-358936

SW Leaf MTS10110MPC1 ES-373099 SW Mode Select MMS00070ZLBO (SW1) ES-387465J

TR Photo PN268 (TR1) ET-361490 TR Photo PT493F (TR4) ET-390009J

### Replacement of the Gear Mid Part (JFX Only)



- 1) Remove the REVIEW BRAKE PART and IDLER (2) PART.
- 2) Release the stopper of the TAKE UP REEL TABLE, then remove it.
- 3) Remove the two "A" screws then replace the GEAR MID PART as shown above.
- 4) Reassemble in reverse order.

## **Electrical Adjustments**

